

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESIBLE PEDESTRIAN SIGNALS)/CPS (COUNTDOWN PEDESTRIAN SIGNALS) AND INSTALLATION OF ADA COMPLIANT CURB RAMPS AT THE INTERSECTION OF MD 176 (DORSEY ROAD) AND AVIATION BOULEVARD/STEWART AVENUE IN ANNE ARUNDEL COUNTY, MARYLAND. MD 162 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 176 (DORSEY ROAD) AND MD 162 (AVIATION BOULEVARD) - WEST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS DORSEY AT AVIATION. WAIT." **

WALK: RAPID TICK

MD 176 (DORSEY ROAD) AND STEWART AVENUE - WEST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS DORSEY AT STEWART. WAIT." **

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	30 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS DORSEY ROAD"
		- 1 EACH W11-15 SIGN (30 IN. x 30 IN.)
		- 1 EACH D9-16 MOD SIGN (24 IN. x 18 IN.)
		- 2 EACH M1-5 SIGN (30 IN. x 24 IN.)
		- 1 EACH M3-2 SIGN (24 IN. x 12 IN.)
		- 1 EACH M3-4 SIGN (24 IN. x 12 IN.)
		- 1 EACH M6-1L SIGN (21 IN. x 15 IN.)
		- 1 EACH M6-1R SIGN (21 IN. x 15 IN.)

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
2001	1 C.Y.	CLASS 2 EXCAVATION
5002	125 L.F.	5 IN. HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5003	655 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	680 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6002	250 S.F.	5 INCH CONCRETE SIDEWALK
6003	60 S.F.	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8002	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8008	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	1 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	2 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8044	36 L.F.	WOOD SIGN SUPPORTS UP TO 4" X 6"
8045	30 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8047	45 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	340 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8060	530 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

NONE

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

MR. MIKE HUBER
DISTRICT UTILITY ENGINEER
PHONE: (410) 841-1039

MR. JOHN S. MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

MR. AVIJIT MAJI
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MAINTENANCE OF TRAFFIC

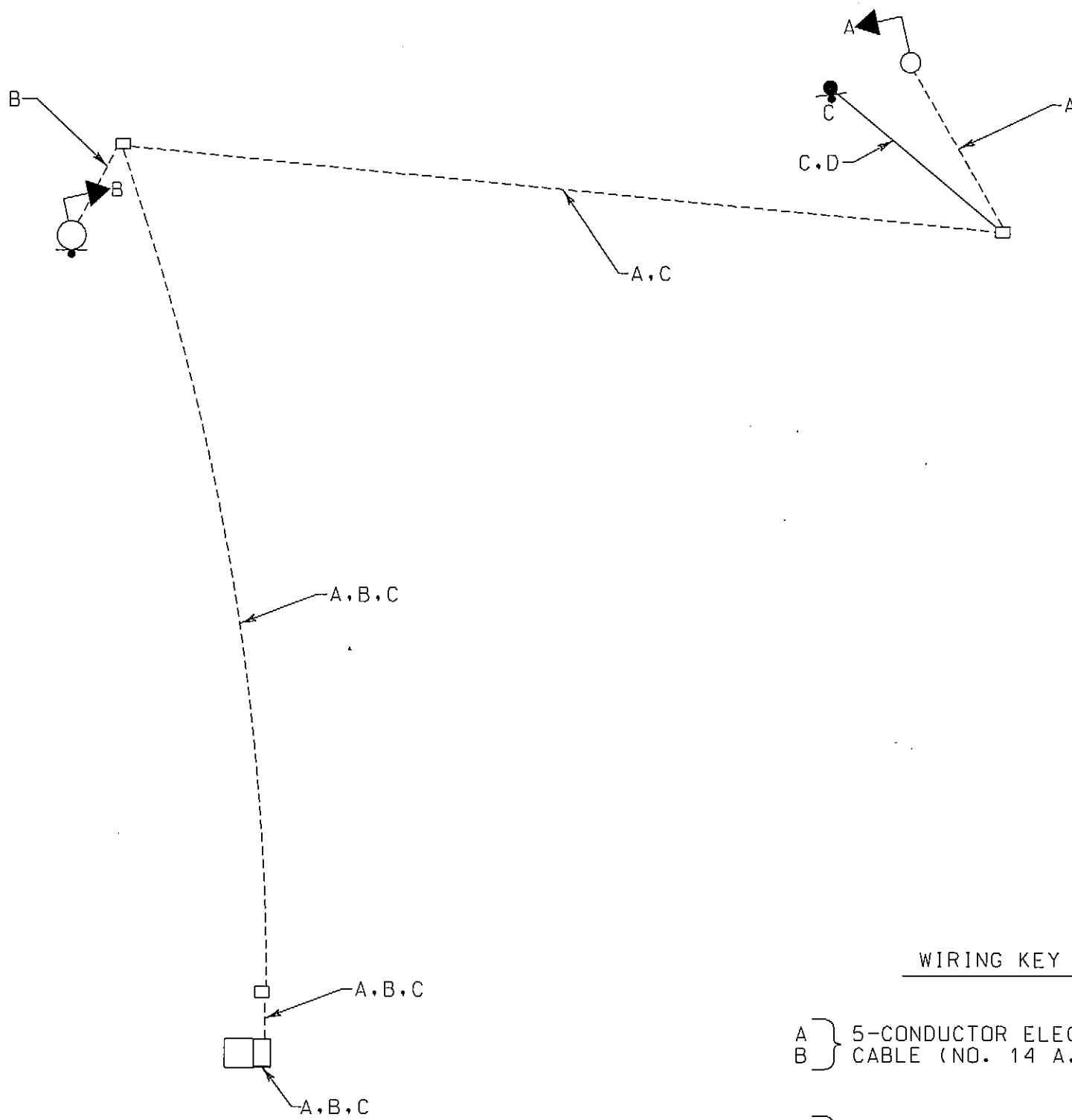
THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE) STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)
PHASE 1 + 5	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6													
PHASE 1 + 6	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
1 + 6 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
2 + 5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
2 + 6 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
4 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
FLASHING OPERATION	FLR	FLR	FLR	FLR	FLR	FLR	FLY	FLY	FLY	FLY	FLY	FLY	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

TOD NO: XY139-03
SHA NO: AA189B53
MD 162, MD 170, MD 176 @ Various Locations

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 176 (DORSEY ROAD) AT
MD 162 AVIATION BOULEVARD & STEWART AVENUE
(GLEN BURNIE, MD)

GENERAL INFORMATION SHEET

SCALE NONE DATE February, 2013 CONTRACT NO. XY1395185

DESIGNED BY J. RASMUSSEN COUNTY ANNE ARUNDEL
DRAWN BY J. RASMUSSEN LOGMILE 02016200.00
CHECKED BY N. LEARY TMS NO. L653
F.A.P. NO. TOD NO.

TS NO. 182J DRAWING TSP-9 OF 33 SHEET NO. 9 OF 33

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
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